



PATENT

GK-US045033

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :
Tae-Wook KIM et al. : Patent Art Unit: 2816
Serial No.: 10/775,234 : Examiner: An T Luu
Filed: February 11, 2004 : **AMENDMENT AFTER**
For: MIXER CIRCUIT HAVING IMPROVED : **FINAL REJECTION**
LINEARITY AND NOISE FIGURE :
:

AMENDMENT

Assistant Commissioner of Patents
Washington, DC 20231

Sir:

In response to the September 20, 2005 Office Action and the January 11, 2006
Advisory Action, please amend the above-identified patent application as follows:

Amendments to the Specification begin on page two (2) of this paper.

Amendments to the Claims are reflected in the Listing of Claims, which begins on page
three (3) of this paper. Claims 6-9, 14, and 15 are pending, with claim 6 being the only
independent claim.

Remarks/Arguments begin on page six (6) of this paper.

Appl. No. 10/775,234

Amendment dated March 13, 2006

Reply to Office Action of September 20, 2005 and

Advisory Action of January 11, 2006

Please replace paragraph [0070] beginning on page 20, with the following rewritten version:

Here, the first current source I41 can be provided between the collector of the first NPN transistor BN41 (that is, the output terminal 403 of the amplification unit 410) and the third input terminal 409 of the mixing unit 430 to allow optimal current to flow through the collectors of the second and third NPN transistors BN42 and BN43 in terms of linearity. As seen in Fig. 4, the amplification unit 410 and the mixing unit 430 are connected solely by the output terminal 403 and the third input terminal 409.